







## Safety Data Sheet

### 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

<b>1.1 Product Identifier</b>					
Product Name		Nutmeg Oil.			
Biological Definition		Myristica Fragrans Fruit Oil (nutmeg) is an essential oil steam-distilled from the dried kernels of the ripe seeds of the Nutmeg, <i>Myristica fragrans</i> , <i>Myristicaceae</i> .			
INCI Name		Myristica Fragrans Fruit Oil			
Synonyms & Trade Names		-			
CAS-No	84082-68-8	EC No.	282-013-3	EINECS No.	282-013-3
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
No additional data available.					
<b>1.3 Details of the supplier of the safety data sheet</b>					
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
<b>1.4 Emergency Tel. No.</b>		604-540-8700 (Monday-Friday 8:30 am-4:30 pm)			

### 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>			
The Full Text for all Hazard Statements are Displayed in Section 16.			
Classification (EC 1272/2008)			
Physical and Chemical Hazards: Flam. Liq. 3 – H226 Human Health: Asp Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 – H317, Eye Irrit. 2 – H319, Muta.2 – H341, Carc. 1B – H350 Environment: Aquatic Chronic 3 - H412			
<b>2.2 Label Elements</b>			
Label in accordance with (EC) No 1272/2008			
GHS02 	GHS07 	GHS08 	GHS09 
Signal Word			
Danger.			
Contains			
Sabinene, Alpha & Beta Pinenes, alpha-terpinene, gamma-terpinene, limonene, safrole, terpinen-4-ol, alpha-Phellandrene, Myrcene, P-Cymene			
Hazard Statements			
H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.			

<p>H317 May cause an allergic skin reaction.  H319 Causes serious eye irritation  H341 Suspected of causing genetic defects.  H350 May cause cancer.  H411 Very toxic to aquatic life with long-lasting effects.</p>	
<p>Precautionary Statements</p>	
<p>P301/310 IF SWALLOWED immediately call a POISON CENTRE/doctor/  P331 Do NOT induce vomiting.  P262 Do not get in eyes, on skin or on clothing.  P280 Wear protective gloves/protective clothing/eye protection/face protection.  P201 Obtain special instructions before use.  P281 Use personal protection equipment as required.  P273 Avoid release to the environment.  P305/351/ 338 Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p>	
<p>Supplementary Precautionary Statements</p>	
<p>P391 Collect spillage  P405 Store locked up</p>	
<p><b>2.3 Other Hazards</b></p>	
PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	Combustible but will not self-ignite.
Adverse effects on human health	See hazard statement section above. Contra-indicated uses: Psychotropic effects reported. Nutmeg oil may be a MAO inhibitor from myristicin content, and severe reactions to pethidine have been noted. Reynolds JEF (1993) Martindale: The extra Pharmacopeia Pharmaceutical Press).

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

<p><b>3.2 Mixtures</b></p>	
<p><b>20 – 30% Sabinene</b> CAS No: 3387-41-5 EC No: 222-212-4</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 –H226, Asp. Tox. 1</p>	
<p><b>10 - 20% alpha -Pinene</b> CAS No:80-56-8 EC No: 201-291-9</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 – H304, Skin Irrit. 2 – H315, Skin Sens. 1 – H317</p>	
<p><b>5 – 15% beta –Pinene</b> CAS No:127-91-3 EC No: 204-872-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1- H304, Skin Irrit. 2 -H315, Skin Sens. 1 – H317 , Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410</p>	
<p><b>5 - 10% Terpinen-4-ol</b> CAS-No:562-74-3 EC No: 209-235-5</p> <p>Classification (EC 1272/2008) Acute Tox. 4- H302, Skin Irrit. 2 – H315, Eye Irrit. 2 H319</p>	
<p><b>4 - 8% gamma-Terpinene</b> CAS-No: 99-85-4 EC No: 202-794-6</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 – H304</p>	

<b>8 - 12% Limonene</b> CAS-No: 5989-27-5 EC No: 227-813-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 – H317, Aquatic Acute 1- H400, Aquatic Chronic 1 - H410
<b>1 – 5% alpha-Terpinene</b> CAS-No: 99-86-5 EC No: 202-795-1
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox. 4 - H302, Asp. Tox. 1 – H304, Aquatic Chronic 2 – H411
<b>1 – 5% alpha-Phellandrene</b> CAS No: 99-83-2 EC No: 202-792-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 – H304
<b>1 – 5% Myrcene</b> CAS-No: 123-35-3 EC No: 204-622-5
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1- H304, Skin Irrit. 2 – H315, Eye Irrit. 2
<b>1– 5% Terpinolene</b> CAS No: 586-62-9 EC No: 209-578-0
Classification (EC 1272/2008) Asp. Tox. 1 - H304, Skin Sens. 1 – H317, Aquatic Chronic 1 – H410
<b>1 – 5 Myristicin</b> CAS No: 607-91-0 EC No: 210-146-9
Classification (EC 1272/2008) Acute Tox. 4 – H302, Aquatic Chronic 2 – H411
<b>1.0 – 5.0%P-Cymene</b> CAS No: 99-87-6 EC No: 202-796-7
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 H304, Aquatic Chronic 2 – H411
<b>1 – 5% delta-3-Carene</b> CAS No: 607-91-0 EC No: 210-146-9
Classification (EC 1272/2008) Acute Tox. 4 – H302, Aquatic Chronic 2 – H411
<b>1 – 5% Alpha-Thujene</b> CAS No: 2867-05-2 EC No: 220-686-7
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Acute Tox. 4 - H302, Skin Sens. 1B – H317, Aquatic Chronic 2 – H411
<b>1.0 % Safrole</b> CAS No: 94-59-7 EC No: 202-345-4
Classification (EC 1272/2008) Acute Tox. 4 - H302, Muta. 2 - H341, Carc. 1B – H350

## 04. FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

<b>4.2 Most important symptoms and effects, both acute and delayed</b>
Causes burns.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>
Treat symptomatically

## 05. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>
Extinguishing media: Carbon dioxide (CO <sub>2</sub> ). Dry Powder. Foam.
Unsuitable extinguishing media: Full water jet.
<b>5.2 Special hazards arising from the product</b>
None known.
<b>5.3 Advice for firefighters</b>
Wear protective clothing. Avoid inhalation of vapours. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

## 06. ACCIDENTAL RELEASE MEASURES

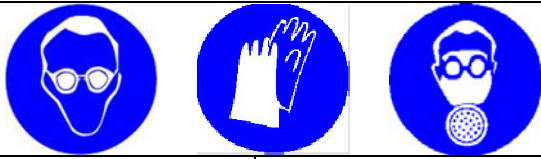
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.
<b>6.2 Environmental Precautions</b>
Do not discharge into drains, water courses or onto the ground.
<b>6.3 Methods and material for containment and cleaning up.</b>
Cover with an inert, inorganic, non-combustible absorbent material (e.g dry-lime, sand, soda ash). Place in covered containers using non-sparking tools and transport outdoors. Avoid open flames or sources of ignition. Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.
<b>6.4 Reference to other sections</b>
Wear protective clothing as described in Section 8 of this safety data sheet.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>
Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
<b>7.3 Specific end use(s)</b>
No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>
Linalool (CAS: 78-70-6) Ingredient Comments : No exposure limits noted for ingredient(s).

<b>8.2 Exposure controls</b>	
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Avoid breathing product vapour. For high concentrations use respiratory equipment.
Hand Protection	Avoid all skin contact. Wear chemical resistant gloves (PVC).
Eye Protection	Wear approved safety goggles.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Mobile Liquid.
Colour	Pale yellow.
Odour	Characteristic.
Relative Density	0.880 to 0.910 @ 20°C
Flash Point (°C)	36.0
Refractive Index	1.474 to 1.488 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	165 @ 760 mm Hg
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.
<b>9.2 Other information</b>	
No additional data available.	

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	
No dangerous reactions known.	
<b>10.2 Chemical stability</b>	
Stable under the recommended handling and storage conditions.	
<b>10.3 Possible hazardous reactions</b>	
No additional data available.	
<b>10.4 Conditions to Avoid</b>	
Avoid heat, flames and other sources of ignition.	
<b>10.5 Incompatible materials</b>	

Materials To Avoid : None known.
<b>10.6 Hazardous Decomposition Products</b>
Carbon monoxide and unidentified organic compounds may be formed during combustion.

## **11. TOXOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	No additional data available.
Skin corrosion / irritation	Causes skin irritation. May cause an allergic skin reaction.
Serious eye damage / irritation	Causes serious eye irritation
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	May cause cancer.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## **12. ECOLOGICAL INFORMATION**



<b>12.1 Toxicity</b>	
No additional data available.	
<b>12.2 Persistence &amp; degradability</b>	
No additional data available.	
<b>12.3 Bioaccumulation Potential</b>	
No additional data available.	
<b>12.4 Mobility in soil</b>	
Mobility: The product is insoluble in water.	
<b>12.5 Results of PBT and vPvB Assessment</b>	
No additional data available.	
<b>12.6 Other adverse effects</b>	
Do not allow product to enter streams, sewers or other waterways.	

## **13. DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	
<p>General information</p> <p>Do not re-use empty containers. Empty residue into a suitable disposal site.</p> <p>Dispose of in compliance with all local and national regulations.</p>	

## **14. TRANSPORT INFORMATION**

<b>14.1 UN number</b>	
UN No. Road	1169
UN No. SEA	1169
UN No. AIR	1169

<b>14.2 UN proper shipping name</b>
Extracts, Aromatic, Liquid
<b>14.3 Transport hazard class(es)</b>
ADR/RID/ADN Class: 3 Flammable Liquid. IMDG Class: 3 Flammable Liquid. ICAO Class/Division: 3 Flammable Liquid.
Transport Labels

<b>14.4 Packing group</b>
ADR/RID/ADN Packing group III IMDG Packing group III ICAO Packing group III
<b>14.5 Environmental hazards</b>
Environmentally Hazardous Substance/Marine Pollutant

<b>14.6 Special precautions for user</b>
EMS F-A-S-F Emergency Action Code 3Z Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances. Tunnel Restriction Code (E)
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>
Tariff Number 33012941

## 15. REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<p><u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).</p> <p><u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p><u>EU Legislation</u> Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.</p>
<b>15.2 Chemical safety assessment</b>
No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H319 Causes serious eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H350 May cause cancer. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H410 Very toxic to aquatic life with long lasting effects.
Other Information	None.
Revision Date	November 23, 2016
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.